

1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/241,653C

DATE: 12/04/2001

TIME: 13:28:08

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\11212001\I241653C.raw

RECEIVED
DEC 19 2001
TECH CENTER 1600/2900

ENTERED

```

4 <110> APPLICANT: Wagner, Hermann
5   Lipford, Grayson
7 <120> TITLE OF INVENTION: Methods for Regulating Hematopoiesis
8   Using CpG-Oligonucleotides
11 <130> FILE REFERENCE: C1041/7002/HCL
13 <140> CURRENT APPLICATION NUMBER: US 09/241,653C
14 <141> CURRENT FILING DATE: 1999-02-02
16 <150> PRIOR APPLICATION NUMBER: US 60/085,516
17 <151> PRIOR FILING DATE: 1998-05-14
19 <160> NUMBER OF SEQ ID NOS: 89
21 <170> SOFTWARE: FastSEQ for Windows Version 3.0
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 15
25 <212> TYPE: DNA
26 <213> ORGANISM: Artificial Sequence
28 <220> FEATURE:
29 <223> OTHER INFORMATION: Synthetic oligonucleotide
31 <400> SEQUENCE: 1
32   gctagacgtt agcgt                                     15
34 <210> SEQ ID NO: 2
35 <211> LENGTH: 15
36 <212> TYPE: DNA
37 <213> ORGANISM: Artificial Sequence
39 <220> FEATURE:
40 <223> OTHER INFORMATION: Synthetic oligonucleotide
42 <400> SEQUENCE: 2
43   gctagatgtt agcgt                                     15
45 <210> SEQ ID NO: 3
46 <211> LENGTH: 15
47 <212> TYPE: DNA
48 <213> ORGANISM: Artificial Sequence
50 <220> FEATURE:
51 <221> NAME/KEY: modified_base
52 <222> LOCATION: (7)...(7)
53 <223> OTHER INFORMATION: m5c
55 <223> OTHER INFORMATION: Synthetic oligonucleotide
57 <400> SEQUENCE: 3
58   gctagacgtt agcgt                                     15
60 <210> SEQ ID NO: 4
61 <211> LENGTH: 15
62 <212> TYPE: DNA
63 <213> ORGANISM: Artificial Sequence
65 <220> FEATURE:
66 <221> NAME/KEY: modified_base
67 <222> LOCATION: (13)...(13)
68 <223> OTHER INFORMATION: m5c
70 <223> OTHER INFORMATION: Synthetic oligonucleotide

```

RAW SEQUENCE LISTING

DATE: 12/04/2001

PATENT APPLICATION: US/09/241,653C

TIME: 13:28:08

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\11212001\I241653C.raw

72 <400> SEQUENCE: 4
73 gctagacgtt agcgt 15
75 <210> SEQ ID NO: 5
76 <211> LENGTH: 15
77 <212> TYPE: DNA
78 <213> ORGANISM: Artificial Sequence
80 <220> FEATURE:
81 <223> OTHER INFORMATION: Synthetic oligonucleotide
83 <400> SEQUENCE: 5
84 gcatgacgtt gagct
86 <210> SEQ ID NO: 6
87 <211> LENGTH: 20
88 <212> TYPE: DNA
89 <213> ORGANISM: Artificial Sequence
91 <220> FEATURE:
92 <223> OTHER INFORMATION: Synthetic oligonucleotide
94 <400> SEQUENCE: 6
95 atggaaggtc cagcgttctc 20
97 <210> SEQ ID NO: 7
98 <211> LENGTH: 20
99 <212> TYPE: DNA
100 <213> ORGANISM: Artificial Sequence
102 <220> FEATURE:
103 <223> OTHER INFORMATION: Synthetic oligonucleotide
105 <400> SEQUENCE: 7
106 atcgactctc gacggttctc 20
108 <210> SEQ ID NO: 8
109 <211> LENGTH: 20
110 <212> TYPE: DNA
111 <213> ORGANISM: Artificial Sequence
113 <220> FEATURE:
114 <223> OTHER INFORMATION: Synthetic oligonucleotide
116 <221> NAME/KEY: modified_base
117 <222> LOCATION: (3)...(3)
118 <223> OTHER INFORMATION: m5c
120 <221> NAME/KEY: modified_base
121 <222> LOCATION: (10)...(10)
122 <223> OTHER INFORMATION: m5c
124 <221> NAME/KEY: modified_base
125 <222> LOCATION: (14)...(14)
126 <223> OTHER INFORMATION: m5c
128 <400> SEQUENCE: 8
129 atcgactctc gacggttctc 20
131 <210> SEQ ID NO: 9
132 <211> LENGTH: 20
133 <212> TYPE: DNA
134 <213> ORGANISM: Artificial Sequence
136 <220> FEATURE:
137 <221> NAME/KEY: modified_base

RECEIVED
DEC 19 2001
TECH CENTER 1600/2900

RAW SEQUENCE LISTING

DATE: 12/04/2001

PATENT APPLICATION: US/09/241,653C

TIME: 13:28:08

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\11212001\I241653C.raw

```

138 <222> LOCATION: (3)...(3)
139 <223> OTHER INFORMATION: m5c
141 <223> OTHER INFORMATION: Synthetic oligonucleotide
143 <400> SEQUENCE: 9
144 atcgactctc gagegtttctc 20
146 <210> SEQ ID NO: 10
147 <211> LENGTH: 20
148 <212> TYPE: DNA
149 <213> ORGANISM: Artificial Sequence
151 <220> FEATURE:
152 <221> NAME/KEY: modified_base
153 <222> LOCATION: (18)...(18)
154 <223> OTHER INFORMATION: m5c
156 <223> OTHER INFORMATION: Synthetic oligonucleotide
158 <400> SEQUENCE: 10
159 atcgactctc gagegtttctc 20
161 <210> SEQ ID NO: 11
162 <211> LENGTH: 20
163 <212> TYPE: DNA
164 <213> ORGANISM: Artificial Sequence
166 <220> FEATURE:
167 <223> OTHER INFORMATION: Synthetic oligonucleotide
169 <400> SEQUENCE: 11
170 atggaaggtc caacgtttctc 20
172 <210> SEQ ID NO: 12
173 <211> LENGTH: 20
174 <212> TYPE: DNA
175 <213> ORGANISM: Artificial Sequence
177 <220> FEATURE:
178 <223> OTHER INFORMATION: Synthetic oligonucleotide
180 <400> SEQUENCE: 12
181 gagaacgctg gaccttccat 20
183 <210> SEQ ID NO: 13
184 <211> LENGTH: 20
185 <212> TYPE: DNA
186 <213> ORGANISM: Artificial Sequence
188 <220> FEATURE:
189 <223> OTHER INFORMATION: Synthetic oligonucleotide
191 <400> SEQUENCE: 13
192 gagaacgctc gaccttccat 20
194 <210> SEQ ID NO: 14
195 <211> LENGTH: 20
196 <212> TYPE: DNA
197 <213> ORGANISM: Artificial Sequence
199 <220> FEATURE:
200 <223> OTHER INFORMATION: Synthetic oligonucleotide
202 <400> SEQUENCE: 14
203 gagaacgctc gaccttcgat 20
205 <210> SEQ ID NO: 15

```

RAW SEQUENCE LISTING

DATE: 12/04/2001

PATENT APPLICATION: US/09/241,653C

TIME: 13:28:08

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\11212001\I241653C.raw

```

206 <211> LENGTH: 20
207 <212> TYPE: DNA
208 <213> ORGANISM: Artificial Sequence
210 <220> FEATURE:
211 <223> OTHER INFORMATION: Synthetic oligonucleotide
213 <400> SEQUENCE: 15
214 gagcaagctg gaccttccat 20
216 <210> SEQ ID NO: 16
217 <211> LENGTH: 20
218 <212> TYPE: DNA
219 <213> ORGANISM: Artificial Sequence
221 <220> FEATURE:
222 <221> NAME/KEY: modified_base
223 <222> LOCATION: (6)...(6)
224 <223> OTHER INFORMATION: m5c
226 <223> OTHER INFORMATION: Synthetic oligonucleotide
228 <400> SEQUENCE: 16
229 gagaacgctg gaccttccat 20
231 <210> SEQ ID NO: 17
232 <211> LENGTH: 20
233 <212> TYPE: DNA
234 <213> ORGANISM: Artificial Sequence
236 <220> FEATURE:
237 <221> NAME/KEY: modified_base
238 <222> LOCATION: (14)...(14)
239 <223> OTHER INFORMATION: m5c
241 <223> OTHER INFORMATION: Synthetic oligonucleotide
243 <400> SEQUENCE: 17
244 gagaacgctg gaccttccat 20
246 <210> SEQ ID NO: 18
247 <211> LENGTH: 20
248 <212> TYPE: DNA
249 <213> ORGANISM: Artificial Sequence
251 <220> FEATURE:
252 <223> OTHER INFORMATION: Synthetic oligonucleotide
254 <400> SEQUENCE: 18
255 gagaacgatg gaccttccat 20
257 <210> SEQ ID NO: 19
258 <211> LENGTH: 20
259 <212> TYPE: DNA
260 <213> ORGANISM: Artificial Sequence
262 <220> FEATURE:
263 <223> OTHER INFORMATION: Synthetic oligonucleotide
265 <400> SEQUENCE: 19
266 gagaacgctc cagcactgat 20
268 <210> SEQ ID NO: 20
269 <211> LENGTH: 20
270 <212> TYPE: DNA
271 <213> ORGANISM: Artificial Sequence

```

RAW SEQUENCE LISTING

DATE: 12/04/2001

PATENT APPLICATION: US/09/241,653C

TIME: 13:28:09

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\11212001\I241653C.raw

```

273 <220> FEATURE:
274 <223> OTHER INFORMATION: Synthetic oligonucleotide
276 <400> SEQUENCE: 20
277   tccatgtcgg tcctgatgct                                     20
279 <210> SEQ ID NO: 21
280 <211> LENGTH: 20
281 <212> TYPE: DNA
282 <213> ORGANISM: Artificial Sequence
284 <220> FEATURE:
285 <223> OTHER INFORMATION: Synthetic oligonucleotide
287 <400> SEQUENCE: 21
288   tccatgctgg tcctgatgct                                     20
290 <210> SEQ ID NO: 22
291 <211> LENGTH: 20
292 <212> TYPE: DNA
293 <213> ORGANISM: Artificial Sequence
295 <220> FEATURE:
296 <221> NAME/KEY: modified_base
297 <222> LOCATION: (8)...(8)
298 <223> OTHER INFORMATION: m5c
300 <223> OTHER INFORMATION: Synthetic oligonucleotide
302 <400> SEQUENCE: 22
303   tccatgtcgg tcctgatgct                                     20
305 <210> SEQ ID NO: 23
306 <211> LENGTH: 20
307 <212> TYPE: DNA
308 <213> ORGANISM: Artificial Sequence
310 <220> FEATURE:
311 <221> NAME/KEY: modified_base
312 <222> LOCATION: (12)...(12)
313 <223> OTHER INFORMATION: m5c
315 <223> OTHER INFORMATION: Synthetic oligonucleotide
317 <400> SEQUENCE: 23
318   tccatgtcgg tcctgatgct                                     20
320 <210> SEQ ID NO: 24
321 <211> LENGTH: 20
322 <212> TYPE: DNA
323 <213> ORGANISM: Artificial Sequence
325 <220> FEATURE:
326 <223> OTHER INFORMATION: Synthetic oligonucleotide
328 <400> SEQUENCE: 24
329   tccatgacgt tcctgatgct                                     20
331 <210> SEQ ID NO: 25
332 <211> LENGTH: 20
333 <212> TYPE: DNA
334 <213> ORGANISM: Artificial Sequence
336 <220> FEATURE:
337 <223> OTHER INFORMATION: Synthetic oligonucleotide
339 <400> SEQUENCE: 25

```

VERIFICATION SUMMARY

DATE: 12/04/2001

PATENT APPLICATION: US/09/241,653C

TIME: 13:28:10

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\11212001\I241653C.raw

L:1084 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:89